



P O Box 13222
Sacramento CA 95813-6000

February 15, 1995

Mr. Thomas Hutchings, Director
County of Sacramento, Department of
Planning and Community Development
827 Seventh Street
Sacramento, California 95814

Mr. Dennis Yeast, Director
County of Sacramento, Department of
Environmental Review and Assessment
827 Seventh Street
Sacramento, California 95814

Subject: Closure of Deep Injection Wells 1 and 2 (IW-1 and IW-2)

Dear Sirs:

Aerojet General Corporation has destroyed their two deep injection wells at the Sacramento Propulsion Systems Plant pursuant to the 1994 Closure/Post-Closure Plan which was approved by the California Department of Toxic Substances Control (DTSC) on June 30, 1994. In accordance with Section 9.3 of the Plan, this letter provides the following information about the use of the injection wells for the disposal of wastewater containing hazardous waste constituents:

Period of use:	1963 to 1968; 1975 to 1985, inclusive.
Depth of injection:	Approximately 970 to 1600 feet below the ground, primarily into the Ione Formation.
Volume of wastewater:	Approximately 85 million gallons.
Composition of wastewater:	See attached table.

In accordance with Section 10.2, attached is a survey plat showing the location of IW-1 and IW-2. In addition, Aerojet will include the above information in a Declaration of Covenants, Conditions, and Restrictions for the property which will be filed with the County Recorder, as required by Section 9.4 of the Plan.

The destruction of IW-1 and IW-2 completes the substantive requirements of the two Administrative Orders on Consent: Docket No. HWCA 89/90-050 for the DTSC and Docket No. UIC AO-CA90-01 for the US Environmental Protection Agency. These orders required the completion of a Well Injectate Migration Assessment (WIMA) Report; the Closure/Post-Closure Plan; and a Closure Report. Long-term monitoring will be conducted according to the requirements of the Post-Closure Plan using the four multiple-completion monitor wells that were constructed for the WIMA. These documents and monitoring data are on file with the EPA, DTSC, and the California Regional Water Quality Control Board, Central Valley Region (RWQCB).

Please contact me at 916/355-2387, if you have any questions or require additional information.

Sincerely yours,



Karen Gunderson, Manager
Environmental Compliance

cc: Mr. Christopher Sanders, DTSC
Mr. Milton Morales, EPA

Table 9-2. Estimated Quantities of Compounds Disposed to Injection Wells 1 and 2

Compound	Weight, pounds	Compound	Weight, pounds
Acetaldehyde	35	Methanol	24,737
Acetone	1,886	Methylene Chloride	8,776
Ammonia	25,401	Nitrous Acid	31
Ammonium Chloride	222,567	OBPA	Trace
Ammonium Nitrite	139,823	Paraldehyde	89,549
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Ethylene Oxide	Trace	TAGN	184
Formaldehyde	360,478	TCTNB C6Cl3(NO2)3	Trace
Formic Acid	3,959	Toluene	14,434
Hydrazine	491	XAMA-2	47
Hydrazine Nitrate	858	XAMA-3	4
Hydrazine Phosphate	491	XAMA-4	20
Hydrofluoroboric Acid	472	XAMA-5	4
Iminodipropilnitrile	Trace	XAMA-6	4
Isopropal Alcohol	1,105	XAMA-7	146
MAB Polymers	36	Miscellaneous Inorganics	755,952
MBB	83	Miscellaneous Organics	1,961,599
MSP	27	Still Bottoms et al	634,206
Mercaptoethylamine	Trace	Unknowns	59,738

EXHIBIT "A"
Page 1 of 1

DESCRIPTION OF DESTROYED INJECTION WELL IW-1

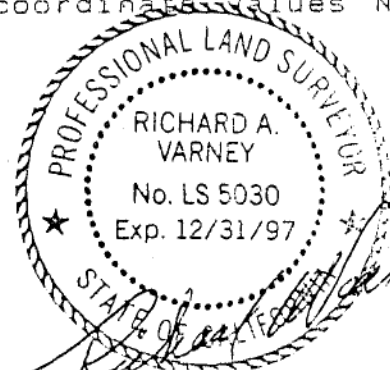
Located in Aerojet Corporation property, County of Sacramento, State of California, described as follows:

Beginning at an found "T" bar with tag stamped 245-859 R/W 106, as shown on that certain Record Of Survey recorded in Book 52 at Page 16, on January 13, 1994, said point being shown on sheet 8 of 15, has State of California Coordinate Values Zone 2 as, North 339629.573 East 2212422.607, also said point "T" bar is located on sheet 1 of 2 sheets of Department of the Interior Bureau of Reclamation Auburn-Folsom South Unit Central Valley Project-California, FOLSOM SOUTH CANAL AEROJET GENERAL CORPORATION R.O.W. MAP # 859-245-3009 UNIT NO. FS-108b, N 40°31'E 304.3 feet from Point "D" as shown on said map.;thence from Point of Beginning N 89°21'34" E 5136.83 feet to Centerline of Injection Well IW-1, California State Coordinate System Zone 2, North American Datum 1927, well has the following state coordinate values North 339686.991 East 2217559.117.

DESCRIPTION OF DESTROYED INJECTION WELL IW-2

Located in Aerojet Corporation property, County of Sacramento, State of California, described as follows:

Beginning at an found "T" bar with tag stamped 245-859 R/W 106, as shown on that certain Record Of Survey recorded in Book 52 at Page 16, on January 13, 1994, said point being shown on sheet 8 of 15, has State of California Coordinate Values Zone 2 as, North 339629.573 East 2212422.607, also said point "T" bar is located on sheet 1 of 2 sheets of Department of the Interior Bureau of Reclamation Auburn-Folsom South Unit Central Valley Project-California, FOLSOM SOUTH CANAL AEROJET GENERAL CORPORATION R.O.W. MAP # 859-245-3009 UNIT NO. FS-108b, N 40°31'E 304.3 feet from Point "D" as shown on said map.;thence from Point of Beginning S 87°33'40" E 5085.62 feet to Centerline of Injection Well IW-2, California State Coordinate System Zone 2, North American Datum 1927, well has the following state coordinate values North 339413.161 East 2217503.624.



VARNLEY LAND SURVEYS

52916

157

White Rock Road

Rock Road

4-11793-1

February 15, 1995

Mr. Jim Gibboney
California Department
of Water Resources
3251 S Street
Sacramento, CA 95816

Mr. Rob Habel
California Division
of Oil and Gas
801 K Street, MS-22
Sacramento, CA 95814

Mr. Mel Knight
Sacramento County Environmental
Management Department
8475 Jackson Road, Suite 240
Sacramento, CA 95826

Subject: Closure of Deep Injection Wells 1 and 2 (IW-1 and IW-2)

Dear Sirs:

As required by Section 9.1 of the Closure/Post-Closure Plan, this letter provides notice to your organizations that Aerojet has closed their two deep injection wells. Enclosed is a survey plat showing the location of wells IW-1 and IW-2.

The destruction of these wells completes the substantive requirements of the two Administrative Orders on Consent: Docket No. HWCA 89/90-050 for the California Department of Toxic Substances Control (DTSC) and Docket No. UIC AO-CA90-01 for the US Environmental Protection Agency (EPA). These orders required the completion of a Well Injectate Migration Assessment (WIMA) Report; a Closure/Post-Closure Plan, which was approved by the DTSC on June 30, 1994; and a Closure Report. Long-term monitoring will be conducted according to the requirements of the Post-Closure Plan using the four multiple-completion monitor wells that were constructed for the WIMA.

These documents and monitoring data are on file with the EPA, DTSC, and the California Regional Water Quality Control Board, Central Valley Region (RWQCB). If you have any questions, please contact me at 355-2387 or Mr. Rodney Fricke at 355-5161.

Sincerely yours,



Karen Gunderson, Manager
Environmental Compliance

EXHIBIT "A"
Page 1 of 1

DESCRIPTION OF DESTROYED INJECTION WELL IW-1

Located in Aerojet Corporation property, County of Sacramento, State of California, described as follows:

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DESCRIPTION OF DESTROYED INJECTION WELL IW-2

Located in Aerojet Corporation property, County of Sacramento, State of California, described as follows:

Beginning at an found "T" bar with tag stamped 245-859 R/W 106, as shown on that certain Record Of Survey recorded in Book 52 at Page 16, on January 13, 1994, said point being shown on sheet 8 of 15. has State of California Coordinate Values Zone 2 as, North 339629.573 East 2212422.607, also said point "T" bar is located on sheet 1 of 2 sheets of Department of the Interior Bureau of Reclamation Auburn-Folsom South Unit Central Valley Project-California, FOLSOM SOUTH CANAL AEROJET GENERAL CORPORATION R.O.W. MAP # 859-245-3009 UNIT NO. FS-108b, N 40°31'E 304.3 feet from Point "D" as shown on said map.;thence from Point of Beginning S 87°33'40" E 5085.62 feet to Centerline of Injection Well IW-2. California State Coordinate System Zone 2, North American Datum 1927. well has the following state coordinate values North 339413.161 East 2217503.624.

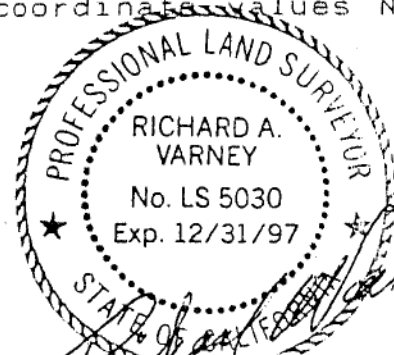
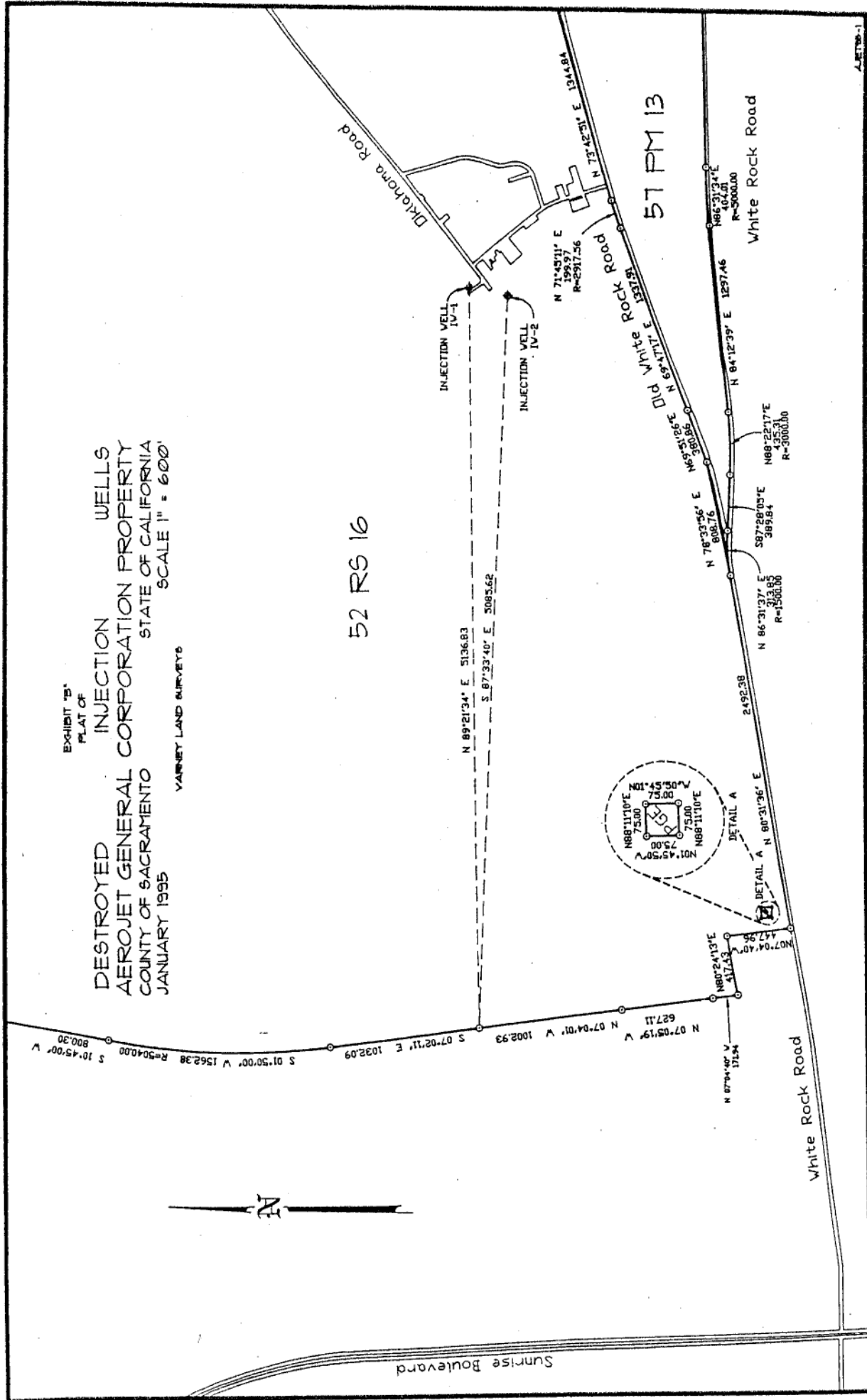


EXHIBIT 'B'
 PLAT OF
 DESTROYED INJECTION WELLS
 AEROJET GENERAL CORPORATION PROPERTY
 COUNTY OF SACRAMENTO STATE OF CALIFORNIA
 JANUARY 1995
 SCALE 1" = 600'
 VARNET LAND SURVEYS

52 RS 16

57 PM 13



May 1, 1995

Mr. Christopher Sanders
California Department of Toxic Substances Control
10151 Croydon Way, Suite 2
Sacramento, California 95827-2106


Subject: Declaration of Covenants, Conditions, and Restrictions (CC&Rs) for the
Closure Report on Injection Wells 1 and 2 (IW-1 and IW-2)

Dear Mr. Sanders:

Enclosed is a copy of the subject for inclusion at the back of Appendix A. In addition, enclosed are two copies of revised text on page 2, including one copy that uses strikeout and redline fonts to facilitate your recognition of the revision and a second copy that does not highlight the revision. Please insert the second copy into your copy of the report.

This submittal completes third of the three tasks that were identified as incomplete at the time of submitting the closure report. If you have any questions, please contact me at 916/355-2387 or Mr. Fricke at 916/355-5161.

Sincerely yours,



Karen Gunderson, Manager
Environmental Compliance

cc: Mr. Alexander MacDonald, RWQCB
Mr. Milton Morales, EPA

Aerojet notified the County of Sacramento, Department of Planning and Community Development (local zoning authority) and the Department of Environmental Review and Assessment about the type and volume of hazardous wastes, the injection interval, and the time period of injection; and provided a survey plat of the well locations.

Aerojet ~~has initiated the process to executed and recorded~~ a Declaration of Covenants, Conditions, and Restrictions ~~on for the property pertaining to the injection wells.~~

CONSTRUCTION OF THE INJECTION WELLS

The injection wells are located in the southwestern corner of the 8,500-acre Aerojet facility, as shown by Figures 1 and 2, within the Aerojet Plant 2 area. The following descriptions were modified from the 1992 WIMA report. Figures 3 and 4 show the respective construction of each injection well.

Injection Well 1

Injection well 1 (IW-1) was constructed during late 1961 and early 1962 and consisted of a surface casing, a conductor casing, a production casing, a casing sleeve, and an injection tubing. The conductor casing was 12-3/4 inches in diameter and extended from the ground surface to a depth of approximately 970 feet, which is near the base of the Valley Springs Formation. The exterior of the casing was sealed with cement grout throughout its length.

The production casing was 8-5/8 inches in diameter and extended from the ground surface to 1,400 feet. The casing was perforated (factory slotted) from 970 to 1400 feet which is within the Ione Formation and, to a lesser extent, the Chico Formation. The gravel pack originally extended outside the production casing from the total depth to the surface. However, in 1978, cement was installed in the gravel-packed annulus between the 8-5/8- and 12-3/4-inch-diameter casings from a depth of approximately 600 feet to the surface. At that time, a 5-1/2-inch-diameter casing sleeve was installed and cemented inside the production casing from the ground surface to 897 feet to seal breaches in the production casing that were created during the annulus cementing operation.

Fluids were injected into IW-1 through a 2-7/8-inch-diameter injection tubing attached to a retrievable Halliburton R-4 packer at 895 feet. The tubing and packer were removed in May 1991 prior to mechanical integrity testing (MIT) for the WIMA.

Aerojet notified the County of Sacramento, Department of Planning and Community Development (local zoning authority) and the Department of Environmental Review and Assessment about the type and volume of hazardous wastes, the injection interval, and the time period of injection; and provided a survey plat of the well locations.

Aerojet executed and recorded a Declaration of Covenants, Conditions, and Restrictions for the property pertaining to the injection wells.

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95 04 17 0934

Recording Requested By:

PLACER TITLE - Accommodation Only
Accommodation # 301D 2OFFICIAL RECORDS
SACRAMENTO COUNTY, CALIF.

95 APR 17 PM 12:36

When Recorded Mail To:

William S. Hunter
Hunter Richey Di Benedetto
& Brewer
801 K Street, 23rd Floor
Sacramento, California 95814-3525

COUNTY CLERK-RECORDER

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pages	10	\$34.-		
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(space above line for County Recorder's use only)

DECLARATION OF COVENANTS, CONDITIONS
AND RESTRICTIONS

This Declaration of Covenants, Conditions and Restrictions (this "Declaration") is executed this twenty-seventh (27th) day of February, in the year 1995, by Aerojet-General Corporation, an Ohio Corporation ("Declarant").

RECITALS

Whereas, Declarant owns real property upon which deep wastewater injection wells (collectively, the "Wells") were operated;

Whereas, the exact locations (collectively, the "Locations") of the Wells are set forth in Exhibits "A" and "B" attached hereto;

Whereas, the Wells have been permanently closed and sealed (collectively, the "Closure") in accordance with regulatory requirements;

Whereas, Section 66265.119 of Article 7 of Chapter 15 of Division 4.5 of Title 22 of the California Code of Regulations requires, after the Closure, that this Declaration be recorded in the Official Records of the County of Sacramento, State of California;

Whereas, a final subdivision map or parcel map (a "Map") may, in the future, be recorded in the Official Records of the County of Sacramento, State of California;

Whereas, a portion of the property shown on a Map, typically as a lot or parcel thereon, may contain either or both of the Locations (a "Relevant Parcel");

Whereas, and in accordance with said Section 66265.119, Declarant intends that all deeds and other conveyances of ownership or interests in a Relevant Parcel (collectively, "Future Conveyances") shall be made subject to this Declaration;

Whereas, and also in accordance with said Section 66265.119, this Declaration contains covenants, conditions, restrictions, and information (collectively, the "Restrictions") about which all persons acquiring any ownership or other interest in a Relevant Parcel should be aware; and

Whereas, Declarant intends the Restrictions to be covenants running with the land in perpetuity and equitable servitudes that shall be binding upon all persons taking any title or interest in a Relevant Parcel per a Future Conveyance;

Now, Therefore, Declarant, on behalf of itself and all of its successors and assigns, in perpetuity, hereby declares, covenants, agrees, and notifies as follows:

RESTRICTIONS

1. Future Conveyances. Each and every Future Conveyance shall be subject to all of the Restrictions, whether or not such Future Conveyance contains any reference to the Restrictions or to this Declaration.

2. Period of Use. The Wells were used to dispose of approximately eighty-five (85) million gallons of wastewaters between 1963 and 1968, inclusive, and between 1975 and 1985, inclusive.

3. The Hazardous Waste. Said wastewaters contained hazardous waste constituents and other constituents as summarized in Exhibit "C" attached to this Declaration.

4. Depths of Injections. Said wastewaters were injected into the Wells at depths between approximately nine hundred seventy (970) and one thousand six hundred (1,600) feet, measured from the surface of the land at the Locations, and primarily into the Ione Formation.

5. Survey Plat. A survey plat (Exhibits "A" and "B" attached hereto) showing the Locations of the Wells has been filed with the County of Sacramento Planning and Community Development Department and with the California Department of Toxic Substances Control.

6. Use Restrictions. Reference is made to Article 7 of Chapter 15 of Division 4.5 of Title 22 of the California Code of Regulations for use restrictions applicable to a Relevant Parcel.

7. Covenants and Servitudes. All of the Restrictions are and shall be covenants running with the land, equitable servitudes, and binding upon, and inuring to the benefit of, Declarant, all of its successor and assigns, and each and every Relevant Parcel and all portions thereof.

8. Incorporation of Exhibits. All Exhibits attached to and referenced in this Declaration are incorporated herein by this reference.

IN WITNESS WHEREOF, this Declaration of Covenants, Conditions and Restrictions is executed in the County of Sacramento as of the date first set forth above.

Aerojet-General Corporation, an
Ohio Corporation

By: 

T. P. Griffin

Its: Director, Real Estate

EXHIBIT "A"

DESCRIPTION OF THE LOCATIONS OF THE WELLS

EXHIBIT "A"
Page 1 of 1

DESCRIPTION OF DESTROYED INJECTION WELL IW-1

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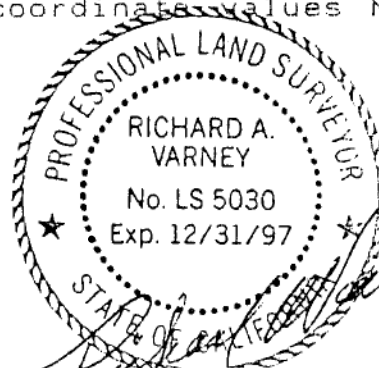


EXHIBIT "B"

SURVEY PLAT OF THE LOCATIONS OF THE WELLS

EXHIBIT "B"
 FLAT OF
 DESTROYED INJECTION WELLS
 AEROJET GENERAL CORPORATION PROPERTY
 COUNTY OF SACRAMENTO
 STATE OF CALIFORNIA
 JANUARY 1995
 SCALE 1" = 600'
 YARNEY LAND SURVEYS

52 RS 16

57 PM 13

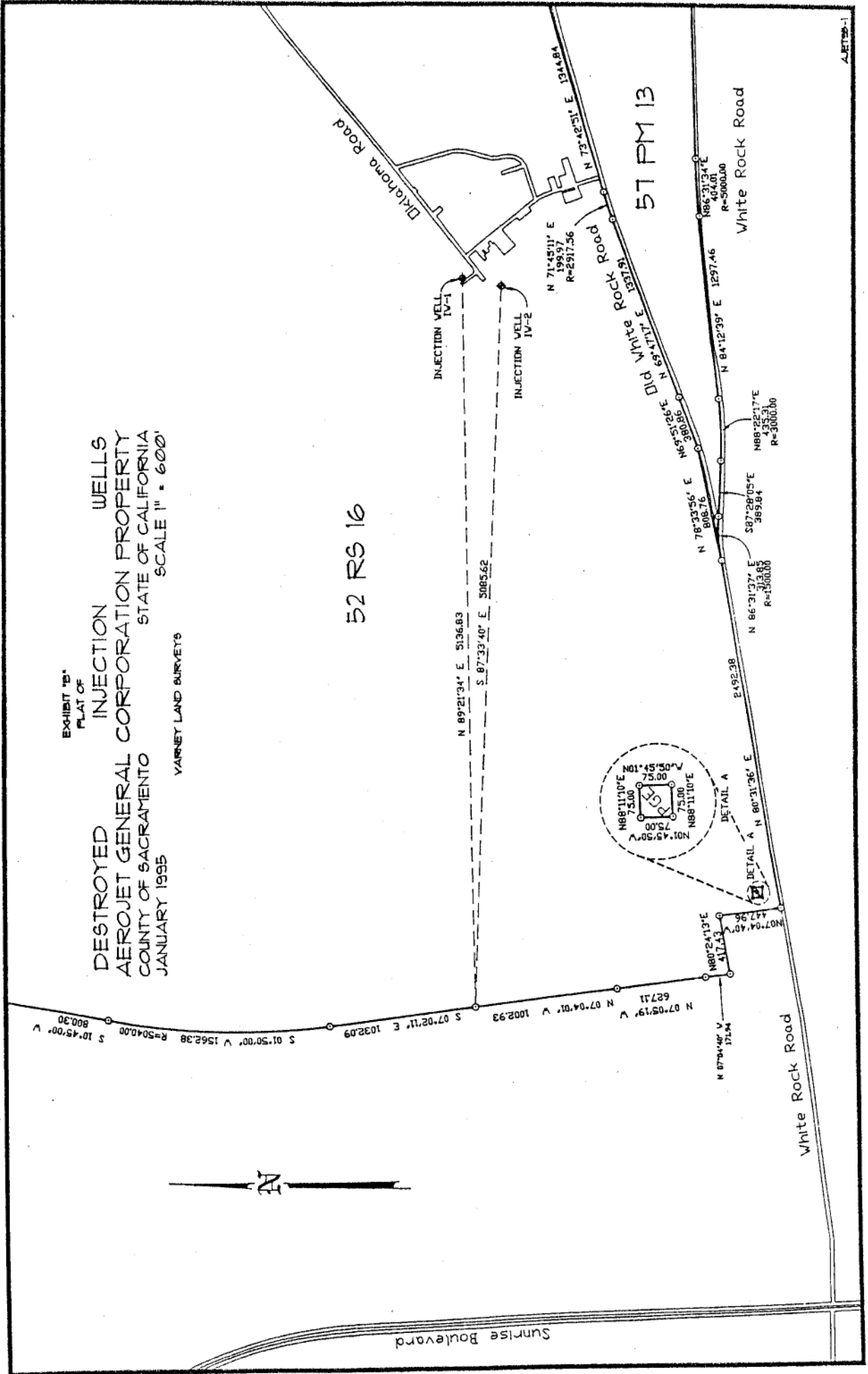


EXHIBIT "C"
ESTIMATED QUANTITIES OF COMPOUNDS

Table 9-2. Estimated Quantities of Compounds Disposed to Injection Wells 1 and 2

Compound	Weight, pounds	Compound	Weight, pounds
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Hydrazine Nitrate	858	XAMA-3	4
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Hydrofluoroboric Acid	472	XAMA-5	4
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MSP	27	Still Bottoms et al	634,206
Mercaptoethylamine	Trace	Unknowns	59,738

STATE OF CALIFORNIA)
)
COUNTY OF SACRAMENTO) ss.

On March 13, 1995 before me, Maryann L. Koch, a Notary Public personally appeared T.P. GRIFFIN [name and title of officer], personally known to me, or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Maryann L. Koch
Signature of Notary